WE CLAIM



8.

A method for determining a substance which regulates glycation of a protein, comprising admixing (i) a substance to be tested, (ii) a histone H1, and (iii) ADP-ribose, and determining of said substance to be tested has an effect on glycation of histone H1 by ADP-ribose, wherein indication of an effect on said glycation indicates that said substance regulates glycation.

- 2. The method of claim 1, wherein said substance is a dicarbonyl scavenger.
- 3. The method of claim 1, wherein said substance is not an antioxidant.

The method claim 1, comprising determining glycation by measuring fluorescence of glycated histone H1.

The method of claim a further comprising comparing said effect to the effect achieved by admixing aminoguanidite, histone H1, and ADP-ribose.

The method claim 2, comprising measuring fluorescence about 5 days after admixing (i), (ii), and (iii)

The method of claim further comprising combining admixing (i), (ii) and (iii) in a separate assay with AGE-BSA, and measuring effect of (i) on fluorescence of AGE-BSA.

The method of claim 1, further comprising determining cross-linking of molecules of histone H1.

The method of claim 1, wherein said substance is a nucleophilic compound.

10. The method of claim 7, wherein said nucleophilic compound is a thiol containing compound.

A kit useful in determining if a substance is capable of regulating protein glycation, comprising a container means, and separate portions of each of (i) histone H1 and (ii) ADP-ribose.

ribose.

HZN-C-NHUHZ
NH
NH
Quin square